



Long-Term Support
World Class Quality

DRAM

DDR4

ISSI DDR4 Product Features:

- Standard Voltage: VDD = VDDQ = 1.2V, VPP=2.5V
- Data Integrity
Auto Self Refresh [ASR] by DRAM built-in TS
Auto Refresh and Self Refresh Modes
- DRAM access bandwidth
Separated IO gating structures by Bank Group
Self Refresh Abort
Fine Granularity Refresh
- Signal Synchronization
Write Leveling via MR settings
Read Leveling via MPR
- Reliability & Error Handling
Command/Address Parity
Data bus Write CRC
MPR readout
Boundary Scan [x16]
- Signal Integrity
Internal VREFDQ Training
Read Preamble Training
Gear Down Mode
Per DRAM Addressability
Configurable DS for system compatibility
Configurable On-Die Termination
Data bus Inversion [DBI]
ZQ Calibration for DS/ODT impedance accuracy via external ZQ pad [240 ohm +/-1%]
- Power Saving and efficiency
POD with VDDQ termination
Command/Address Latency [CAL]
Maximum Power Saving
Low power Auto Self Refresh [LPASR]
- Operating Temperature
Commercial [Tc = 0C to + 95C]
Industrial [Tc = -40C to + 95C]
Automotive, A1 [Tc = -40C to + 95C]
Automotive, A2 [Tc = -40C to + 105C]
Automotive, A3 [Tc = -40C to + 125C]

Applications:

- **Automotive**
Infotainment
Telematics
Driver Information Systems
- **Telecom/Networking**
SDN, NFV
Access & Aggregation Nodes
Switches and Routers
Packet Optical Transport
Network Storage
[PON OLT, DSLAM, CMTS, Wireless]
- **Industrial**
Human Machine Interface
Embedded Computing

ISSI DDR4 SDRAM Ordering Options

Den	Speeds	Part No.	Org.	Pkg.	Status
4G	2666,2400	IS43QR85120B	512Mx8	BGA[78]	Prod
	2666,2400	IS43QR16256B	256Mx16	BGA[96]	Prod
8G	2666,2400	IS43QR81024A	1Gx8	BGA[78]	S=NOW
	2666,2400	IS43QR16512A	512Mx16	BGA[96]	S=NOW
16G	2666,2400	IS43QR8K02S2A	2Gx8	BGA[78]	S=Q3/21

ISSI DDR4 SDRAM Automotive Ordering Options

Den	Speeds	Part No.	Org.	Pkg.	Status
4G	2666,2400	IS46QR85120B	512Mx8	BGA[78]	Prod
	2666,2400	IS46QR16256B	256Mx16	BGA[96]	Prod
8G	2666,2400	IS46QR81024A	1Gx8	BGA[78]	S=NOW
	2666,2400	IS46QR16512A	512Mx16	BGA[96]	S=NOW
16G	2666,2400	IS46QR8K02S2A	2Gx8	BGA[78]	S=Q3/21